

## CLAIMS

What is claimed is:

1. A projection optical system having a wedge prism, comprising:
  - at least one light source which provides at least one light beam;
  - 5 a light valve which is disposed in front of said light source and has a surface, wherein said light beam impinges onto said surface;
  - a reflection mirror which is disposed in the optical path from said light source to said light valve to reflect said light beam toward said light valve; and
  - 10 at least one wedge prism which is disposed in the optical path among said light source, said reflection mirror and said light valve such that said light beam focuses on said surface of said light valve.
2. A projection optical system having a wedge prism according to claim 1, wherein said light beam obliquely impinges onto said surface of said light valve.
3. The projection optical system having a wedge prism according to claim 1, wherein said 15 wedge prism is disposed in the incident optical path of said light valve.
4. The projection optical system having a wedge prism according to claim 1, wherein said wedge has the different sectional thickness depending on the distance of the light path to the light valve.
5. The projection optical system having a wedge prism according to claim 1, wherein said 20 reflection mirror is formed as a reflection surface of said wedge prism.